



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

SCIENCE

A WEEKLY JOURNAL DEVOTED TO THE ADVANCEMENT OF SCIENCE, PUBLISHING THE OFFICIAL NOTICES AND PROCEEDINGS OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.

EDITORIAL COMMITTEE : S. NEWCOMB, Mathematics ; R. S. WOODWARD, Mechanics ; E. C. PICKERING, Astronomy ; T. C. MENDENHALL, Physics ; R. H. THURSTON, Engineering ; IRA REMSEN, Chemistry ; CHARLES D. WALCOTT, Geology ; W. M. DAVIS, Physiography ; HENRY F. OSBORN, Paleontology ; W. K. BROOKS, C. HART MERRIAM, Zoology ; S. H. SCUDDER, Entomology ; C. E. BESSEY, N. L. BRITTON, Botany ; C. S. MINOT, Embryology, Histology ; H. P. ROWDITCH, Physiology ; J. S. BILLINGS, Hygiene ; WILLIAM H. WELCH, Pathology ; J. McKEEN CATTELL, Psychology ; J. W. POWELL, Anthropology.

NEW SERIES. VOLUME XIV.

JULY - DECEMBER, 1901.

NEW YORK
THE MACMILLAN COMPANY
1901

THE NEW ERA PRINTING COMPANY,
41 NORTH QUEEN STREET,
LANCASTER, PA.

CONTENTS AND INDEX.

N. S. VOL. XIV.—JULY TO DECEMBER, 1901.

The Names of Contributors are Printed in Small Capitals.

- ABBE, C., Cannonade against Hail Storms, 738
Acoustics, Progress in, JAMES LOUDON, 987
Agricultural, Colleges, American, Assoc. of, A. C. TRUE, 883 ; Chemists, Official, H. W. WILEY, 997
Agriculture, Secretary's Annual Report, 954
Alaska, W J M., 807
'Albatross,' Work of the, F. A. L., 899
ALLEN, E. W., Agricultural Bacteriology, H. W. Conn, 1001 ; The Feeding of Animals, W. H. Jordan, 1002
ALLEN, G. M., Boston Soc. of Nat. Hist, 1010
American Association for the Advancement of Science, 59, 74, 108, 156, 185, 188, 233, 255, 297, 305, 315, 345, 348, 357, 360, 375, 385, 393, 444, 474, 482, 492, 527, 545, 585, 596, 602, 625, 658, 705, 717, 745, 785, 794, 800, 801, 912, 965, 970, 984
AMI, H. M., Royal Society of Canada, 111
Anopheles Punctipennis and Culex Pipiens, G. W. HERRICK, 329
Antarctic Expedition, British, National, 94
Anthropological Society of Washington, W. HOUGH, 936, 1005
Anthropology, at the American Association, 297 ; G. G. MACCURDY, 717 ; at University of California, 619 ; and Psychology at the N. Y. Acad. Sci., R. S. Woodworth, 934, 971 ; Current Questions in, W J M., 996
Archeological Publication, New, H. I. SMITH, 300
Astigmatic Images of the Bottom of Pool, F. E. NIPHER, 855
Astronomical Science, Advances in, C. L. DOLITTLE, 1
Astrophysical Observatory of the Smithsonian Institution, C. E. MENDENHALL, 407
Atkinson, E., Ganot's Natural Philosophy, W. LE C. STEVENS, 257
B., F. A., Patagonian Personalities, 693
B., G. F., Centroid of a Quadrangle, 696
B., H. C., Smithsonian Institution Documents, W. J. RHEES, 931
BAIN, S. M., Fungicides and Peach Foliage, 221
BANKS, N., Notes on Entomology, 977
BARUS, C., Stability of Vibrations, 403 ; The Hitler Jubilee, 897
BASKERVILLE, C., A Basis of Scientific Thought, 165 ; Elisha Mitchell Scientific Society, 615, 813
BATHER, F. A., Geologic Distribution of Pollicipes and Scalpellum, 112
Bather, F. A., on Echinodermata, C. E. BEECHER, 844
BEAL, W. H., Physics of Agriculture, F. H. King, 1002
BEATTIE, W. R., Hydrocyanic Acid Gas in Extermination of Household Insects, 285
Beaufort Laboratory, H. V. WILSON, 739
BEECHER, C. E., Bather on Echinodermata, 844
Berkeley, D. H., Hygiene, G. M. KOBER, 727
Bernadou, J. B., Smokeless Powder, C. E. MUNROE, 767
BESSEY, C. E., Botanical Notes, 72, 331, 938 ; A Botanist's Journey to the Denver Meeting of the A. A. A. S., 185 ; Coulter and Chamberlain's Morphology of Spermatophytes ; Chamberlain's Methods in Plant Histology, 260 ; Ganong and MacDougall on Plant Physiology, 494 ; Early Winter Colors of Plant Formations, 721 ; Britton's Flora of the Northern States and Canada, 732
BESSEY, JR., C. E., Botany at the American Association, 596
Bibliographical Research, A. G. S. JOSEPHSON, 615
Bibliography, A. G. S. JOSEPHSON, 535
BIGGS, H. M., Malarial Fever, 266
Bougardan's Système métrique, T. C. MENDENHALL, 143
Biological, Society of Washington, T. W. STANTON, 849 ; F. A. LUCAS, 895, 1007 ; Survey of Great Lakes, J. REIGHARD, 34
Birds, Song in, W. E. D. SCOTT, 522
BOGERT, M. T., Les plantes tinctoriales, Les matières colorantes naturelles, V. Thomas, 278, 846
BOLTON, H. C., Christian Friederich Schönbein, 689 ; Del Mar's History of the Precious Metals, 893
Bornstein, R., Leitfaden der Wetterkunde, H. H. CLAYTON, 651
Boston Soc. Nat. Hist., G. M. ALLEN, 1010
Botanical, Notes, C. E. BESSEY, 72, 331, 938 ; Work Committee, 136 ; Society in America, D. T. MACDOUGAL, 526 ; Seminar, Univ. of Nebraska, 775
Botanists' Journey to the Denver Meeting of the A. A. S., C. E. BESSEY, 185
Botany, Systematic, Problems and Possibilities of, B. L. ROBINSON, 465 ; at the American Association, C. E. BESSEY, JR., 596
BRANNER, J. C., Travertine Falls and Reefs, 184
BRASHEAR, J. A., Carnegie Technical School, 385
BRITCHER, H. W., Onondaga Academy of Sci., 149
British Association for the Advancement of Science, Approaching Meeting of, 376 ; Address of the President, A. W. RÜCKER, 425 ; Address of President of Physiological Section, J. G. MCKENDRICK, 517, 539 ; and President McKinley, 580 ; Address of President of Anthropological Section, J. D. CUNNINGHAM, 603, 640 ; Glasgow Meeting, J. P. McMURRICH, 633, 682 ; A. L. ROTCH, 757
Britton, N. L., Flora of Northern States and Canada, C. E. BESSEY, 732
Brontosaurus, H. B. HATCHER, 1015
Bumpus, H. C., Lobster Culture, 1013
BURGESS, E. S., The Torrey Botanical Club, 69, 850, 935, 971
BUTLER, A. W., Notable Factor in Social Degeneration, 444

- C., E. F., Packard's History of Medicine, 769
 C., T. D. A., Las Vegas Science Club, 1009
 CAJORI, F., Deviation of Falling Bodies, 853
 Calendar of Societies and Academies, 894, 933
 Calkins, G. N., The Protozoa, W. M. WHEELER, 808
 Carnegie Technical School, 41, 656 ; J. A. BRASHEAR, 385
 Catalase, A New Enzyme, D. W. MAY, 815
 Catalogue, International, of Scientific Literature, T. WILLIAMS, 328
 CATTELL, J. MCK., Visual Perception of Space, 263 ; Washington Memorial Institution and a National University, 574
 Centroid of a Quadrangle, G. F. B., 696
 Chamberlain, on the Functions of a University, 226
 Chamberlain's Methods in Plant Histology, C. E. BESSEY, 260
 CHAMBERLAIN, A. F., Ameliorations of English Grammar, 814
 Chemical, Society, American, N. Y. Section, D. WOODMAN, 30 ; J. A. MATHEWS, 692, 1007 ; Northeastern Section, H. FAY, 1008 ; Denver Meeting, A. C. HALE, 154 ; Laboratory, Harvard, 36
 Chemistry, Teaching, in Schools, R. P. WILLIAMS, 100 ; In Medical Schools of the U. S., J. H. LONG, 360 ; at the American Association, W. MCPHERSON, 482 ; Inorganic, Notes on, J. L. H., 536, 696, 855
 Chester's Bacteriology, H. W. CONN, 967
 Chicago University, Conferring Degrees, 73 ; Field Work in Botany, Geology and Zoology, 459
 CHILD, C. M., Zoological Club, University of Chicago, 28
 Clark, W. B., Allegany County, Maryland, G. W. STOSE, 181
 CLARKE, J. M., Maryland Eocene Book, 27
 CLAYTON, H. H., Leitfaden der Wetterkunde, R. Bornstein, 651 ; Air Pressure and the Pulse, 616
 Cliff Dwellings, Colorado, H. I. SMITH, 333
 COCKERELL, T. D. A., Horned Lizard, 111
 COLE, F. N., American Mathematical Society, 375, 772
 Color, Vision, Ebbinghaus's Theory of, C. L. FRANKLIN, 30 ; of Plant Formations, C. E. BESSEY, 721
 Columbia University, Resignation of the President, 656
 COMSTOCK, G. C., Astronomischer Jahresbericht, W. F. Wislicenus, 216
 Comstock, G. C., Astronomy, S. D. TOWNLEY, 612
 CONN, H. W., Chester's Determinative Bacteriology, 967
 Conn, H. W., Agricultural Bacteriology, E. W. ALLEN, 1001
 Connecticut Rivers, W. H. HOBBS, 1011
 CONRADI, A. F., Toads killed by Squash-bugs, 816
 Convocation Week, Report of the Committee on, C. S. MINOT, R. S. WOODWARD, E. L. NICHOLS, L. O. HOWARD, J. MCK. CATTELL, 984
 Corals, Bahaman, T. W. VAUGHAN, 491
 Coulter and Chamberlain's Morphology of Spermato-phytes, C. E. BESSEY, 260
 COULTER, J. M., Proceedings of American Association, 348
 CRAMPTON, H. E., Biology at the N. Y. Academy of Sciences, 109
 CROES, J. J. R., A Century of Civil Engineering, 83
 CUNNINGHAM, J. D., Address of President of Anthropological Section of British Association, 603, 640
 DAVENPORT, C. B., Zoology of the Twentieth Century, 315
 DAVIS, W. M., Current Notes on Physiography, 70, 152, 222, 299, 457, 537, 617, 698, 778, 856, 975
 DEARBORN, G. V. N., Psychology and the Medical School, 129
 Degeneration, Social, A. W. BUTLER, 444
 Del Mar's History of the Precious Metals, H. C. BOLTON, 893
 Deviation of Falling Bodies, F. CAJORI, 853
 DEXTER, E. G., Success at School, 248
 Discord, M. MEYER, 328, 616 ; W. LE C. STEVENS, 455, 654
 Discussion and Correspondence, 30, 111, 150, 183, 220, 263, 326, 412, 455, 496, 534, 573, 615, 654, 693, 735, 775, 814, 852, 896, 936, 973, 1011
 Doctorates, conferred by American Universities, 161 ; at the University of Pennsylvania, 333
 DODGE, R. E., Geology and Mineralogy at the N. Y. Academy of Science, 773
 Doflein, F., Zell und Protoplasmastudien, 454
 DOOLITTLE, C. L., Astronomical Science during Nineteenth Century, 1
 Douglass, Andrew Ellicott, H. I. SMITH, 570
 Dubois, R., Physiology, G. N. I. S., 324
 Earthquake, Japanese, Investigations, T. C. MENDENHALL, 178
 Eclipse, Total, of the Sun, S. A. MITCHELL, 802
 Eddyman's X-Ray Work, A. W. GOODSPEED, 965
 Education, Change of Front, C. M. WOODWARD, 474
 Electro-chemical, American, Society, 818
 Elisha Mitchell Scientific Society, C. BASKERVILLE, 615, 813
 Elliot, D. G., Mammals of North America, G. S. MILLER, JR., 25
 Engineering, Civil, a Century of, J. J. R. CROES, 83 ; Education, F. O. MARVIN, 121 ; in London, 289 ; Steam, R. H. THURSTON, 810
 Entomology, Magazine, J. B. SMITH, 456 ; M. McCULLOCH-WILLIAMS and J. B. S., 776 ; Notes on, N. BANKS, 977
 F., A. K., Wild Birds, F. H. Herrick, 326
 FAY, H., Am. Chem. Soc., Northeastern Section, 1008
 Fellows of American Association, 527
 FERNOW, B. E., Subjects and Titles in Colleges, 654
 Fish, Fauna of Japan, D. S. JORDAN, 545 ; Largest Deep-sea, T. GILL and C. H. TOWNSEND, 937
 Fishes, Distribution of, D. S. JORDAN, 936 ; A. E. ORTMANN, 694
 FISKE, T. S., Forsyth's Functions of a Complex Variable, 533
 Forestry, New Bureau of, 115 ; Association, American, 188
 Forsyth's Functions of a Complex Variable, T. S. FISKE, 533
 FOWKE, G., Preglacial Drainage of Southwestern Ohio, 936
 FOX, W. J., Unknown Works of Rafinesque, 498, 617
 Fraas on Aqueous vs. Aeolian Deposition of the White River Oligocene of S. D., 210
 FRANKLIN, C. L., Color-vision, 30
 FRANKLIN, W. S., Atoms and Energies, D. A. Murray, 295 ; Weather Control, 496
 Frazer, P., Bibliotics, R. S. WOODWORTH, 291
 French Association for the Advancement of Science, 540
 Frost, W. D., Bacteriology, E. O. J., 65

- Fuertes, on Water Filtration, F. E. TURNEAURE, 573
 Fungicides, Injury to Peach Foliage, S. M. BAIN, 221
Fusarium Equinum, V. A. NÖVGAARD, 898
 Fürbringer, M., Reptiles, O. P. HAY, 180
- G., S. H., Animal Life, D. S. Jordan and V. L. Kellogg, 147
Ganong's Plant Physiology, C. E. BESSEY, 494
 GAUS, H. S., 'Is Larvæ Contagious?' 152
 Geography, Physical, Relation to other Sciences, W. H. NORTON, 205
 Geologic Distribution of Pollicipes and Scalpellum, F. A. BATHER, 112
 Geological Explorations at Pikermi, 268; Society of America, 979
 Geology, of Ore Deposits, C. R. VAN HISE, 745, 785; and Geography at the American Association, H. B. PATTON, 794
 Geometry, Non-Euclidean, G. B. HALSTED, 705
 German Congress, Impressions of, 298
 GERMANI, G. B., Graduate Courses in Science, 413
Giglio-Tos, Les problèmes de la vie, J. P. McM., 63
 GILL, T., and C. H. TOWNSEND, Largest Deep sea Fish, 937
 GILMAN, D. C., Relations of Yale University to Letters and Science, 665
 Glasgow University, Jubilee of, 34
 GOODSPEED, A. W., Eddyman's X-Ray Work, 965
 Grammar, English, Ameliorations of, A. F. CHAMBERLAIN, 814
 GRATACAP, L. P., Formative Museum Period, 168
 GREENHILL, A. G., Mathematical Theory of the Top, 973
- H., J. L., Inorganic Chemistry, 536, 696, 855, 1018
 HADDON, A. C., Permanent Skin Decoration, 897
 Hail Storms, Cannonade against, C. ABBE, 738
 HALE, A. C., American Chemical Society, 154
 HALLOCK, W., Larynx an Instrument of Music, 150
 HALSTED, G. B., Non-Euclidean Geometry, 705
 Hann's Meteorology, R. DEC. WARD, 966
 Harrington, C., Practical Hygiene, G. M. KOBER, 727
 Hasluck on Taxidermy, F. A. L., 292
 HATCHER, H. B., Brontosaurus, 1015
 HAY, O. P., Reptiles, M. Fürbringer 180
 Henderson, C. H., and J. F. Woodhull, Elements of Physics, W. LE C. STEVENS, 257
 HENDERSON, Y., Jaffe's Festschrift, 1003
 HERRICK, C. J., Brain of Acipenser, J. B. Johnston, 930
 Herrick, F. H., Home Life of Wild Birds, A. K. F., 326
 HERRICK, G. W., *Anopheles Punctipennis* and *Culex Pipiens*, 329
 HILL, R. T., Coast Pairie of Texas, 326; Sacramento Forest, 739
 Hirsch, Joseph, R. H. THURSTON, 927
 Hittorf Jubilee, C. BARUS, 897
 Hoadley, G. A., Physics, W. LE C. STEVENS, 257
 HOBBS, W. H., Connecticut Rivers, 1011
 Hoskins, L. M., Theoretical Mechanics, R. S. W., 571
 Hot Stones, O. T. MASON, 897
 HOUGH, W., Anthropological Society of Washington, 936, 1005
 Howard, L. O., Mosquitoes, A. S. PACKARD, 218; The Insect Book, J. B. SMITH, 373
 HOYT, J. W., Proposed National University, 505
 Hydrocyanic Acid Gas for Extermination of Household Insects, W. R. BEATTIE, 285
- Industry and Research, 32
 J., E. O., de Bary on Bacteria, W. Migula, 65; Bacteriology, W. D. Frost, 65
 JACKSON, D. C., Dynamo Electric Machinery, S. Sheldon and H. Mason, 410
 JACOBY, H., Truman Henry Safford, 22
 Jaffe's Festschrift, Y. HENDERSON, 1003
 JAYNE, H., Anatomy of the Cat, J. Reighard and H. S. Jennings, 453
 JENNINGS, H. S., Vergleichende Anatomie der wirbellosen Thiere, A. Lang, 259
 JESSE, R. H., State University, 138
 Johnson, W., Theoretical Mechanics, R. S. W., 571
 Johnston, J. B., Brain of Acipenser, C. J. HERRICK, 930
 Joly, C. J., Hamilton's Elements of Quaternions, A. MACFARLANE, 65
 JORDAN, D. S., Fish Fauna of Japan, 545; Geographical Distribution of Fishes, 936
 Jordan, D. S., Geographical Distribution of Fishes, A. E. OERTMANN, 694; and V. L. Kellogg, Animal Life, S. H. G., 147
 Jordan, W. F., The Feeding of the Animals, E. W. ALLEN, 1002
 JOSEPHSON, A. G. S., School of Bibliography, 535; Institute for Bibliographical Research, 615
- KEYES, C. R., Zone of Maximum Richness in Ore Bodies, 577
 King, F. H., Physics of Agriculture, W. H. BAL, 1002
 KINGSLEY, J. S., Origin of the Mammals, 193
 KOBER, G. M., Recent Books on Hygiene, 727
 Kobert's Wirbelthierblut in Mikrokristallographischer Hinsicht, L. B. MENDEL, 969
 Koenig, Rudolph, W. LE C. STEVENS, 724
- L., F. A., Museum Reports, 153, 499; Hasluck on Taxidermy, 292; Phylogeny of Toothed Whale, 618; Work of the 'Albatross,' 899; South African Museum, 940
 Lang, A., Vergleichende Anatomie der wirbellosen Thiere, H. S. JENNINGS, 259
 Larynx as an Instrument of Music, W. HALLOCK, 150; E. W. SCRIPTURE, 183
 LAWSON, A. C., Joseph Le Conte, 273
 Lawton, George K., T. J. J. SEE, 215
 Lazear, Jesse William, Memorial, 225
 Le Conte, Joseph, A. C. LAWSON, 273
 Leffmann, H., and W. Beam, Food Analysis, H. W. WILEY, 769
 LEITH, C. K., Sci. Club, Univ. Wisconsin, 972
 Library Association, American, 225
 Lizard, Horned, at High Altitude, T. D. A. COCKERELL, 111
 LLOYD, A. H., Unscientific Reflections upon Science, 13
 Lobster Culture, H. C. BUMPUS, 1013
 LONG, J. H., Teaching of Chemistry in Medical Schools of U. S., 360
 LOUDON, JAMES, A Century of Progress in Acoustics, 987
 LUCAS, F. A., Paleontological Notes, 376; Biological Society of Washington, 895, 1007
 Lühe, M., Sporozoenforschung, C. W. STILES, 106
 Lyons on Electromagnetic Phenomena, M. F. O'REILLY, 145
- M., L B., Marcel Nencki, 889

- M., W J., An American Senate of Science, 277 ; 'Who's Who in America,' 651 ; Alaska, 807
 McM., J. P., Les problèmes de la vie, E. Giglio-Tos, 63 ; Fifth International Congress of Zoology, 405
 McCULLOCH-WILLIAMS, M., and J. B. S., Magazine Entomology, 776
 MACCURDY, G. G., Anthropology at the American Association, 717
 MACDOUGAL, D. T., Botanical Society in America, 526 ; Pfeffer's *Pflanzenphysiologie*, 847
 MacDougal's Plant Physiology, C. E. BESSEY, 494
 MACFARLANE, A., Quarternions, C. J. Joly, 65
 McGEE, W J., Washington Memorial Institution, 111 ; Current Questions in Anthropology, 996
 MCKENDRICK, J. G., Address before Physiological Section of British Association, 517
 McKinley, President, and British Association, 580
 McMURRICH, J. P., Glasgow Meeting of the British Association, 633, 682
 MCPHERSON, W., Chemistry at the American Association, 482
 Malarial Fever, H. M. BIGGS, 266 ; Parasite, 297
 Mammalian, New, Genus, 114
 Mammals, Origin of the, J. S. KINGSLEY, 193
 MARVIN, F. O., Engineering Education, 121
 Maryland Eocene Book, J. M. CLARKE, 27
 MASON, O. T., Lifting Hot Stones, 897
 Mathematics and Astronomy at the American Association, G. A. MILLER, 393
 Mathematical Society, American, F. N. COLE, 772
 MATHEWS, J. A., N. Y. Section of Amer. Chem. Society, 692
 MAY, D. W., Lime and Magnesia in Plant Production, 31 ; Catalase, a New Enzyme, 815
 Mayo-Smith, Richmond, 900
 MELTZER, S. J., Overton über die Narcose, 845
 Membership of the American Association, 59, 255, 492, 602, 800, 965
 MENDEL, L. B., Professor Pawlow on the Physiology of Secretion, 647 ; Schulz's Krystallization von Eiweissstoffen, 691 ; Kobert's Wirbeltierblut in Mikrokristallographischer Hinsicht, 969
 MENDENHALL, C. E., Annals of the Astrophysical Observatory of the Smithsonian Institution, 407
 MENDENHALL, T. C., Bijourdan's Système métrique, 143 ; Japanese Earthquake Investigations, 178 ; Henry Augustus Rowland, 865
 MERRIMAN, M., Public Water Supplies, F. E. Turneaure, F. H. Russell, 104
 MERRITT, E., American Physical Society, 848
 Meteorological Observations with Kites at Sea, A. L. ROTCH, 896
 Meteorology, Current Notes, R. DEC. WARD, 33, 779, 817, 938 ; Kites in, A. L. ROTCH, 412
 MEYER, M., Discord, 328, 616
 Meyer's Studien über den Körperbau der Anneliden, E. B. WILSON, 889
 Michigan, Univ. of, Research Club, F. A. NEWCOMBE, 66
 Migula, W., de Bary's Vorlesungen über Bakterien, E. O. J., 65
 MILLER, A. M., Preglacial Drainage of Southwestern Ohio, 534
 MILLER, G. A., Mathematics and Astronomy at the American Association, 393
 MILLER, JR., G. S., Mammals of North America, D. G. Elliot, 25
 MINOT, C. S., Remarks of, at American Association, 357 ; Committee on Convocation Week, 984
 Missouri Univ. Scientific Association, C. THOM, 852
 MITCHELL, S. A., Total Eclipse of the Sun, 802
 MORGAN, T. H., Regeneration and Liability to Injury, 235
 MOSELEY, E. L., The Python in Pennsylvania, 852
 Mosquito Larvae, Goldfish as Destroyers of, W. L. UNDERWOOD, 1018
 Mosso's *La Democrazia*, G. TOSTI, 293
 MUNROE, C. E., Bernadou on Smokeless Powder, 767
 Munson, E. L., Military Hygiene, G. M. KOBER, 727
 Murray, D. A., Atoms and Energies, W. S. FRANKLIN, 295
 Museum, Formative Period, L. P. GRATACAP, 168 ; Reports, F. A. L., 153, 499
 Mutation, Varietal, C. A. WHITE, 841
 National, University, 45, 113 ; J. W. HOYT, 505 ; Academy of Sciences, 813
 Naturalists, American Society of, meeting in Chicago during Convocation Week, 905 ; Program, 980
 Naval Observatory, 819, 861, 945 ; Report of Board of Visitors, C. A. YOUNG, C. F. CHANDLER, A. HALL, JR., E. C. PICKERING, O. STONE, W. R. HARPER, 877 ; Report of Superintendent, 947
 Nencki, Marcel, L. B. M., 889
 NEWCOMBE, F. C., Research Club of Univ. of Michigan, 66
 NIPHER, F. E., Astigmatic Images of Bottom of Pool, 855
 New York, Academy of Sciences, Biology, H. E. CRAMPTON, 109 ; Astronomy, Physics and Chemistry, F. L. TUFTS, 614, 934 ; Anthropology and Psychology, R. S. WOODWORTH, 934, 971 ; Geology and Mineralogy, R. E. Dodge, 773 ; Botanical Garden, 460
 NORTON, W. H., Relation of Physical Geography to other Sciences, 205
 NÖVGAARD, V. A., Fusarium Equinum, 898
 NOYES, W. A., Roscoe-Schorlemmer's Chemie, 811 ; Remsen's Chemistry, 932
 NUTTING, C. C., Tierleben der Tiefsee, O. Seeliger, 998
 O., H. F., Recent Zoo-Paleontology, 330, 498, 578, 699
 Observatory, Naval, 819, 861, 945 ; Report of Board of Visitors, C. A. YOUNG, C. F. CHANDLER, A. HALL, JR., E. C. PICKERING, O. STONE, W. R. HARPER, 877 ; Report of Superintendent, 947
 Onondaga Academy of Science, H. W. BRITCHER, 149
 Ore Bodies, Zone of Maximum Richness, C. R. KEYES, 577
 O'REILLY, M. F., Lyons on Electromagnetic Phenomena, 145
 Ornithologists', American, Union, J. H. SAGE, 926
 ORTMANN, A. E., Jordan's Geographical Distribution of Fishes, 694
 OSBORN, H. F., *Diplodocus* Marsh, 531
 Overton über die Narcose, S. J. MELTZER, 845
 PACKARD, A. S., Mosquitoes, L. O. Howard, 218
 Packard, F. R., History of Medicine, E. F. C., 769
 Paleontological Notes, F. A. LUCAS, 376
 PARKER, G. H., Zoological Results, A. Willey, 106
 Parkes, L., Hygiene and Public Health, G. M. KOBER, 727
 Patagonian Personalities, F. A. B., 693
 Pathological Institute, New York, 657
 PATTON, H. B., Geology and Geography at the American Association, 794

- Pawlow, Professor, Researches on Physiology of Secretion, L. B. MENDEL, 647
- PEARSON, R. A., Social and Economic Science at the American Association, 912
- PEGRAM, G. B., Radio-active Substances, 53
- Pennsylvania University, Astronomical Publications, T. J. J. SEE, 891
- Persei, Nova, No. 2, E. C. PICKERING, 31
- Perseus, New Star in, 860
- Pfeffer's *Pflanzenphysiologie*, D. T. MACDOUGAL, 874
- Philosophical Society, American, 74; of Washington, C. K. WEAD, 894, 1006
- Phylogeny of Toothed Whale, F. A. L., 618
- Physical, Chemistry, J. H. VAN'THOFF, 126; Quantities, Definitions of, F. SLATE, 538; Sciences at the British Association, A. L. ROTCH, 757; Society, American, E. MERRITT, 848
- Physics, at the Amer. Association, 108; J. ZELENY, 585
- Physiography, Current Notes on, W. M. DAVIS, 70, 152, 222, 299, 457, 537, 617, 688, 778, 856, 975
- Physiological Effects of Diminished Air Pressure, R. DEC. WARD, 814; H. H. Clayton, 696; W. Upton, 1012
- Physiology, Teaching, W. T. PORTER, 567
- PICKERING, E. C., Nova Persei, No. 2, 31
- Plant, Naming, Some Strange Practices in, C. L. POLLARD, 280; Production, Lime and Magnesia in, D. W. MAY, 31
- POLLARD, C. L., Plant Naming, 280
- PORTER, W. T., Teaching of Physiology, 567
- Porter's Physiology, G. N. I. S., 532
- Prairie, Coast of, Texas, R. T. HILL, 326
- Pre-glacial Drainage of S. W. Ohio, A. M. MILLER, 534; W. G. TIGHT, 775; G. FOWKE, 936
- President Roosevelt's Message, Extracts, 907
- Proceedings of Denver Meeting of American Association, J. M. COULTER, 348
- Pseudoscopic Vision, R. W. WOOD, 184; W. LE C. STEVENS, 220
- Psychology and the Medical School, G. V. N. DEARBORN, 129
- Pulse, Air-pressure on, H. H. CLAYTON, 696
- Python, in Pennsylvania, E. L. MOSELEY, 852
- Quotations, 32, 112, 297
- Rabot on Glaciers, H. F. Reid, 928
- Radio-active Substances, G. B. PEGRAM, 53
- Rafinesque, Unknown Works of, W. J. FOX, 498, 617
- Railways, Government, in Europe, 301
- RANE, F. W., 'Professor of Agriculture,' 573
- Regeneration and Liability to Injury, T. H. MORGAN, 235
- REID, H. F., Rabot on Glaciers, 928
- REIGHARD, J., Biological Survey of Great Lakes, 34
- Reighard, J., and H. S. Jennings, Anatomy of the Cat, H. JAYNE, 453
- Remsen's Chemistry, W. A. NOYES, 932
- Rhees, W. J., Smithsonian Institution Documents, H. C. B., 931
- Rhizoctonia and the Potato, F. M. ROLFS, 899
- RICHARDS, T. W., Kent Chemical Laboratory, 372
- ITTER, W. E., Subsidence of Islands, 575
- ROBINSON, B. L., Systematic Botany, 465
- ROLFS, F. M., Rhizoctonia and the Potato, 899
- Roscoe-Schorlemmer's Chemie, W. A. NOYES, 811
- ROTCH, A. L., Kites in Meteorology, 412; Physical Sciences at the British Association, 757; Meteorological Observations with Kites at Sea, 896
- Rowland, Henry Augustus, T. C. MENDENHALL, 865
- Royal Society of Canada, H. M. AMI, 111
- RÜCKER, A. W., Address of President of British Association, 425
- S., G. N. I., *Leçons de physiologie expérimentale*, R. Dubois, 324; Porter's Physiology, 532
- Sacramento Forest, R. T. HILL, 739
- Safford, Truman Henry, H. JACOBY, 22
- SAGE, J. H., American Ornithologists' Union, 926
- St. Louis Academy of Science, W. TRELEASE, 70, 693, 813, 852
- School, Success at, E. G. DEXTER, 248
- Schönbein, Christian Friederich, H. C. BOLTON, 689
- Schott, Charles Anthony, I. WINSTON, 212
- SCOTT, W. E. D., Song in Birds, 522
- Schulz's Krystallisation von Eiweissstoffen, L. B. MENDEL, 691
- Schuster, A., and C. H. Lees, Practical Physics, W. LE C. STEVENS, 257
- Science, Unscientific Reflections upon, A. H. LLOYD, 13; and the Government, 112; The Progress of, R. S. WOODWARD, 305; Graduate Courses in, G. B. GERMANI, 413; Applied, Prize-subjects in, 420; Student's Society Exhibition, 740
- Scientific Books, 25, 63, 104, 143, 178, 216, 257, 291, 324, 372, 407, 453, 494, 531, 571, 610, 649, 689, 727, 767, 807, 844, 889, 965, 998; Notes and News, 36, 75, 116, 157, 189, 227, 269, 301, 338, 378, 421, 461, 500, 541, 580, 620, 659, 701, 740, 780, 820, 861, 901, 940, 980, 1021; Journals and Articles, 107, 149, 182, 261, 296, 373, 455, 613, 652, 733, 771, 812, 847, 932, 969, 1005; Thought, a Basis of, C. BASKERVILLE, 165; Ornithology, 1013; Societies and Convocation Week, 1020
- SCRIPTURE, E. W., Larynx as a Musical Instrument, 183
- SEE, T. J. J., George K. Lawton, 215; Astronomical Publications of Univ. of Pennsylvania, 891
- Seeliger, O., Tierleben der Tiefsee, C. C. NUTTING, 998
- Senate of Science, American, W J M., 277
- Senegal Baobab Tree, C. A. WHITE, 937
- Shaw, E. R., School Hygiene, G. M. KOBER, 727
- Sheldon, S., and H. Mason, Dynamo Electric Machinery, D. C. JACKSON, 410
- Shorter Articles, 31, 112, 184, 221, 329, 538, 575, 696, 815, 853, 898, 937, 1013
- SIMMONDS, F. W., Texas Academy of Science, 67, 1009
- Skin Decoration, Permanent, H. N. WARDLE, 776; A. C. HADDON, 897
- SLATE, F., Definitions of Physical Quantities, 538
- Slate, F., Principles of Mechanics, R. S. W., 571
- SMITH, H. L., A New Archeological Publication, 300; Preservation of Colorado Cliff Dwellings, 333; Andrew Ellicott Douglass, 570
- SMITH, J. B., The Insect Book, L. O. HOWARD, 373; Magazine Entomology, 456
- SMITH, L. S., Science Club, Univ. of Wisconsin, 851
- Snyder, W. H., and I. O. Palmer, Problems in Physics, W. LE C. STEVENS, 257
- Social and Economic Science at the American Association, R. A. PEARSON, 912
- Societies and Academies, 28, 66, 108, 149, 219, 297, 375, 614, 691, 772, 813, 848, 894, 933, 970, 1005
- South African Museum, F. A. L., 940
- Squash-bugs, Toads killed by, A. F. CONRADI, 816
- STANTON, T. W., Biological Society of Washington, 849

- Starr's Recent Work in Mexico, 227
 State University, R. H. JESSE, 138
 STEVENS, W. LE C., Pseudoscopic Vision, 220 ; Recent Books on Physics, 257 ; Discord and Psychology, 455, 654 ; Rudolph Koenig, 724
 STILES, C. W., Sporozoenforschung, M. Lühe, 106
 STOSE, G. W., Alleghany Co., Md., W. B. Clark, 181
 STRATTON, S. W., Bureau of Standards, 1019
 Subsidence of Islands, W. E. RITTER, 575
- Texas Academy of Science, F. W. SIMONDS, 67, 1069
 Thermodynamics of Gas-engine, R. H. THURSTON, 859
 THOM, C., Sci. Assoc., Univ. of Missouri, 852
 Thomas, V., Les plantes tinctoriales ; Les matières colorantes naturelles, M. T. BOGERT, 218, 846
 THORNDIKE, E. L., Adaptation in Vision, 221
 THURSTON, R. H., Report of Bureau of Steam Engineering, 810 ; Thermodynamics of the Gas-engine, 859 ; Joseph Hirsch, 927
 TIGHT, W. G., Preglacial Drainage in S. W. Ohio, 775
 Titles in Colleges, B. E. FERNOW, 654
 Top, Mathematical Theory of, A. G. GREENHILL, 975
 Torrey Botanical Club, E. S. BURGESS, 69, 850, 935, 971
 Tory, H. M., and F. H. Pitcher, Laboratory Physics, W. LE C. STEVENS, 257
 TOSTI, G., Mosso's La Democrazia, 293
 TOWNLEY, S. D., Comstock's Astronomy, 612
 Travertine Falls and Reefs, J. C. BRANNER, 184
 TRELEASE, W., St. Louis Academy of Science, 70, 693, 813, 852
 TRUE, A. C., Association of American Agricultural Colleges, 8-3
 Tuberculosis, British Congress of, 267
 TUFTS, F. L. Astronomy, Physics and Chemistry at the N. Y. Academy of Science, 614, 934
 TURNEAURE, F. E., Fuertes's Water Filtration, 573
 Turneaure, F. E., and F. H. Russell, Public Water Supplies, M. MERRIMAN, 104
- UNDERWOOD, W. L., Goldfish as Destroyers of Mosquito Larvae, 1017
 University and Educational News, 39, 80, 119, 160, 192, 232, 272, 304, 344, 384, 424, 464, 504, 544, 583, 623, 664, 704, 744, 783, 824, 864, 904, 943, 984, 1042
 Upton, W., Physiological Effects of Diminished Air Pressure, 1012
- VAN HISE, C. R., Geology of Ore Deposits, 745, 785
 VAN'T HOFF, J. H., Physical Chemistry, 126
 VAUGHAN, T. W., Bahaman Corals, 497
 Vibrations, Stability of, C. BARUS, 403
 Vision, Adaptation in, E. L. THORNDIKE, 221
 Visual Perception of Space, J. MCK. CATTELL, 263
- W., R. S., Works on Mechanics, 571 ; Gleichungen mathematischen Physik, H. Weber, 610
 WARD, R. DEC., Current Notes on Meteorology, 33, 779, 817, 938 ; Effects of Diminished Air Pressure, 814 ; Hann's Meteorologie, 966
 WARD, H. B., Zoology at the American Association, 625 ; American Microscopical Society, 801
 WARDLE, H. N., Permanent Skin Decoration, 776
 Washington Memorial Institution, W. J. McGEE, 111 ; and a National University, J. MCK. CATTELL, 574
 WEAD, C. K., Philosophical Society of Washington, 894, 1006
 Weather Control, W. S. FRANKLIN, 496
 Weber, H., Riemann's Gleichungen mathematischen Physik, R. S. W., 610
 WELCH, W. H., Relation of Yale to Medicine, 825
 Wernicke and Vater's Mechanik, R. S. W., 571
 West Virginia, University of, 735
 WHEELER, W. M., The Protozoa, G. N. Calkins, 808
 WHIPPLE, G. C., Investigations of Illinois River, 649
 WHITE, C. A., Varietal Mutation in the Tomato, 841 ; Senegal Baobab Tree, 937
 'Who's Who in America,' W. J. M., 651
 WILEY, H. W., Leffmann and Beam on Food Analysis, 769 ; Association of Official Agricultural Chemists, 997
 Willey, A., Zoological Results, G. H. PARKER, 106
 WILLIAMS, R. P., Teaching Chemistry in Schools, 100
 WILLIAMS, T., Catalogue of Sci. Literature, 328
 WILSON, E. B., Meyer's Studien über den Körperbau der Anneliden, 889
 WILSON, H. V., Work of Beaufort Laboratory, 739
 WINSTON, I., Charles Anthony Schott, 212
 Wisconsin University Science Club, L. S. SMITH, 851 ; C. K. LEITH, 972
 Wislicenus, W. F., Astronomischer Jahresbericht, G. C. COMSTOCK, 216
 WOOD, R. W., Pseudoscopic Vision without a Pseudoscope, 184
 WOODMAN, D., N. Y. Section of American Chemical Society, 30
 Woodward, C. M., Change in Education, 474
 Woodward, R. S., The Progress of Science, 305
 WOODWORTH, R. S., Bibliotics or Study of Documents, P. Frazer, 291 ; Anthropology and Psychology at the N. Y. Acad. of Sci., 934, 971
- Yale, Chemical Laboratory, Research Papers, T. W. RICHARDS, 372 ; University, Bicentennial, 655, 700 ; Letters and Science, D. C. GILMAN, 665 ; Medicine, W. H. WELCH, 825
- YOUNG, C. A., C. F. CHANDLER, A. HALL, JR., E. C. PICKERING, O. STONE, W. R. HARPER, Report of Board of Visitors to Naval Observatory for 1901, 877
- ZELENY, J., Physics at the American Association, 585
 Zoological Club, University of Chicago, C. M. CHILD, 28 ; Fifth International Congress, 405
 Zoology at the American Association, C. B. DAVENPORT, 315 ; H. B. WARD, 625
 Zoo-Paleontology, H. F. O., 330, 498, 578, 699